

**LABORATORY REPORT  
BULK SAMPLE ASBESTOS EVALUATION BY  
POLARIZED LIGHT MICROSCOPY METHOD**

<b>Client:</b>	Illinois Environmental Protection Agency				<b>Project Location:</b>	101 S. Franklin, Kewanee, IL			
<b>Contact</b>	Peter Brusky				<b>Project Reference:</b>	Kewanee Boiler Plant			
<b>Address:</b>	1021 N. Grand Avenue East				<b>TEM Project:</b>	59413			
	Springfield	IL	62794-9276		<b>Analyzed by:</b>	Lori Boersma			
					<b>Date Analyzed:</b>	11/25/2019			
Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
Client Sample ID	Lab ID	Color		Asbestos Fibers		Non-Asbestos Fibers		Filler	Comments
Description				Type	Percent	Type	Percent	Binder	
PB-112019-01 Cement Panel/Power House	374442	Gray	Yes	Chrysotile:	10-15	-	-	85-90	
PB-112019-02 BUR/Power House Debris	374443	Black	None Detected	-	-	Cellulose:	20-30	70-80	
PB-112019-03 Brick & Mortar/Smoke Stack	374444	Red/Gray	None Detected	-	-	-	-	90-100	
PB-112019-04 Corrugated Cement Panel	374445	Gray	Yes	Chrysotile:	10-15	-	-	85-90	
PB-112019-05 White Reinforced Concrete	374446	White	None Detected	-	-	Cellulose:	1-2	98-99	
PB-112019-06 Floor Tile/Debris Pile	374447	White	None Detected	-	-	-	-	90-100	SLM
PB-112019-06* FT Mastic/Debris Pile	374448	Yellow	None Detected	-	-	Cellulose:	Trace	90-100	
PB-112019-07 Skim Coat/Debris Pile	374449	Gray	None Detected	-	-	-	-	90-100	

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<b>Address:</b>	1021 N. Grand Avenue East				<b>TEM Project:</b>	59413			
	Springfield	IL	62794-9276		<b>Analyzed by:</b>	Lori Boersma			
					<b>Date Analyzed:</b>	11/25/2019			
Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
Client Sample ID	Lab ID	Color		Asbestos Fibers		Non-Asbestos Fibers		Filler	Comments
Description				Type	Percent	Type	Percent	Binder	
PB-112019-08 Off-white Brick/NW Bldg Debris	374450	White	None Detected	-	-	-	-	90-100	
PB-112019-09 White Mag Block/ACM Bags	374451	White	Yes	Chrysotile:	Trace	-	-	85-90	
				Amosite:	10-15				
PB-112019-10 Gray Panel/AMC Bags	374452	Gray	Yes	Chrysotile:	90-95	-	-	5-10	
PB-112019-11 Floor Tile/ACM Bags	374453	Brown	Yes	Chrysotile:	3-5	-	-	95-97	
PB-112019-11* FT Mastic/ACM Bags	374454	Black	None Detected	-	-	Cellulose:	1-2	98-99	
PB-112019-12 9x9 Ceiling Tile/Office Bldg.	374455	White/Brown	None Detected	-	-	Cellulose:	90-95	5-10	
PB-112019-12* CT Glue Puck/Office Bldg.	374456	Brown	Yes	Chrysotile:	2-3	Cellulose:	5-10	87-90	

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<b>Client:</b> Illinois Environmental Protection Agency <b>Contact:</b> Peter Brusky <b>Address:</b> 1021 N. Grand Avenue East Springfield IL 62794-9276			<b>Project Location:</b> 101 S. Franklin, Kewanee, IL <b>Project Reference:</b> Kewanee Boiler Plant <b>TEM Project:</b> 59413 <b>Analyzed by:</b> Lori Boersma <b>Date Analyzed:</b> 11/25/2019				
Sample Information			Asbestos Present	Fibrous Materials		Non-Fibrous Materials	
Client Sample ID	Lab ID	Color		Asbestos Fibers		Non-Asbestos Fibers	
Description				Type	Percent	Type	Percent

*Samples are analyzed following the procedures contained in the USEPA Method 600/R-93/116 July 1993. This report applies only to samples analyzed. This report may not be reproduced except in full and with the approval of TEM Environmental, Inc. This report may not be used by the client to claim product endorsement by NVLAP or any agency of the US government. An estimate of the laboratory uncertainty is available upon request.*

*SLM: Certain samples may warrant additional analysis beyond the standard USEPA Polarized Light Microscopy method. 1) Further testing using the point count method is recommend for friable samples found to contain less than 10% asbestos by PLM to confirm that the samples are in fact regulated asbestos containing materials (RACM) as defined by the USEPA NESHAP Regulation. 2) The optical resolution of a polarized light microscope limits the size of fibers that are visible. In cases where very small fibers may be present, such as in samples of floor tiles, vermiculite or certain construction adhesives, the result of the PLM analysis is not conclusive when the sample is reported as "None Detected" or "Trace". Further testing using transmission electron microscopy is recommended in those cases where samples may contain very small fibers which may be smaller than the resolution limit of a polarized light microscope. All such services are available for an additional fee.*

*Analytical services provided are subject to the Terms and Conditions listed on our website.*



Report Approved by:


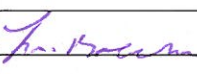


## Chain of Custody

59413

<b>Laboratory:</b> TEM Inc. <b>Address:</b> 443 Duane St Glen Ellyn, IL 60137-4528		<b>Contact: (IEPA Inspector)</b> Peter Brusky 1021 N. Grand Ave. East, MC #41 Springfield Illinois 62702 (217)524-6801 peter.brusky@illinois.gov
<b>Project Name:</b>	Kewanee Boiler Plant	<b>Contractor:</b> GEI, Berkeley, MO
<b>Project Address:</b>	101 S Franklin Kewanee, IL	<b>Owner:</b> Jordan Womack
<b>Collector:</b> Peter Brusky		<b>ASHERA Inspector Number:</b> None

Sample Identification	Date Collected	Location/Description
PB-112019-01	11/20/19	Power house debris/cement panel
PB-112019-02	11/20/19	Power house debris/BUR
PB-112019-03	11/20/19	Smoke stack/brick and mortar
PB-112019-04	11/20/19	Debris pile/corrugated cement panel
PB-112019-05	11/20/19	Debris pile/white reinforced concrete
PB-112019-06	11/20/19	Debris pile/floor tile
PB-112019-07	11/20/19	Debris pile/skim coat
PB-112019-08	11/20/19	NW building debris/off-white brick
PB-112019-09	11/20/19	ACM bags/white mag block
PB-112019-10	11/20/19	ACM bags/gray panel
PB-112019-11	11/20/19	ACM bags/floor tile with black mastic
PB-112019-12	11/20/19	Office building/9x9 ceiling tile and glue puck

Released by (Signature)	Date/Time Released	Delivery Method	Received by (Signature)	Co/Agency Affiliation	Date/Time	Condition Noted
	11/21/19 11:30 AM	Hand/UPS		TEM, IEPA	12:00 PM 11-22-19	

<b>Disposition of Samples:</b> Return to Peter Brusky, IEPA, 1021 N. Grand Ave. East, MC #41 Springfield Illinois 62702
<b>Remarks, Special Instructions:</b> Analyze all samples PLM. 24 Hour TA please. Send sample results to peter.brusky@illinois.gov. Call 217-524-6801 with any questions. Thank you.